

### Announcements

- PA6 due Sunday at midnight!
- Quiz 9 due at midnight tonight!

As always recitation materials are stored here

# **On-Going**

- PA4
  - Create a shared array
- PA5 \inclus
  - Create a DNS resolver
- PA6
  - Combine these to create a multi-threaded DNS resolver

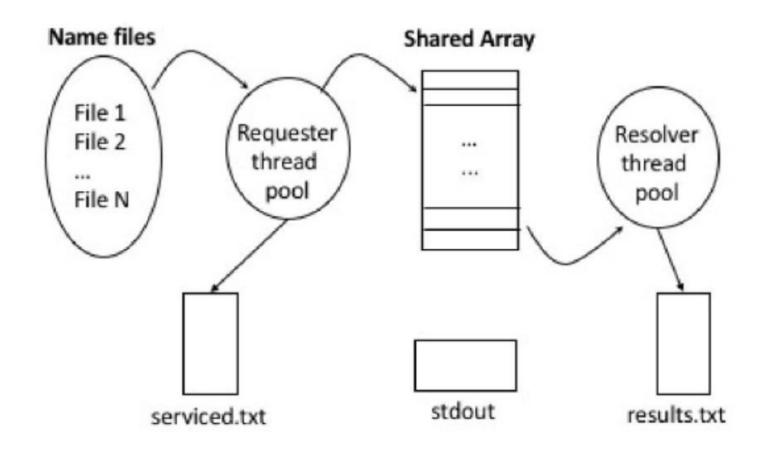
#### **Bounded Buffer Problem!!**



#### PA6

- multi-threaded DNS resolver
  - o multi-lookup <# requester> <# resolver> <requester log> <resolver log> [
    <data file> ... ]
    - <# requesters> number of requestor threads to place into the thread pool
    - <# resolvers> number of resolver threads to place into the thread pool
    - <requester log> name of the file into which requested hostnames are written
    - <resolver log> name of the file into which hostnames and resolved IP addresses are written
    - <data file> filename to be processed. Each file contains a list of host names, one per line, that are to be resolved

# PA6 Diagram



#### PA6 Problem Areas

- Keeping track of files worked
  - o Ideas?

- How to exit resolver threads gracefully?
  - o thoughts?

### PA6 Problem Areas

- Keeping track of files worked
  - Second shared array for file names

- How to exit resolver threads gracefully?
  - Poison pill method